

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

ANNUAL
METEOROLOGICAL
SUMMARY

WITH COMPARATIVE DATA

1929

ST. LOUIS, MO.

Compiled by
ROSCOE NUNN
Meteorologist

ST. LOUIS, MO.
1930

Outstanding features of the winter of 1928-29 were the mild December and the low temperatures of January and February. A spell of very cold weather occurred from January 25 to February 14, and again from February 18 to 22, inclusive.

The early spring of 1929 was mild, but the first three weeks of May, excepting a few days, were very cold for the season. June averaged considerably cooler than normal.

The hottest period—one of unusual severity—occurred from July 23 to August 2. During this period the maximum temperature was above 90° every day and touched 98° on July 28 and 99° on August 2.

November was unusually cold. The minimum temperature on the 30th, 3° above zero, is the lowest ever recorded in November.

December had two rather severe cold periods and two very mild periods, but the month averaged considerably warmer than normal.

In precipitation the outstanding occurrences were: The very wet spring; the record-breaking May snowfall, 4.0 inches on the 2d; the record-breaking heavy precipitation of May, the total being 10.09 inches; the snowfall of 6.5 inches on November 28, which is the heaviest 24-hour amount ever recorded in November.

Temperature and rainfall conditions month by month, as compared with the normals, are shown in the following table:

MONTHLY AND ANNUAL TEMPERATURE AND PRECIPITATION WITH DEPARTURES FROM NORMAL

	Temperature		Precipitation	
	Mean	Departure from Normal	Total	Departure from Normal
January	27.6	- 3.5	2.11	-0.23
February	28.8	- 6.0	0.88	-1.68
March	50.8	+ 6.7	5.33	+1.95
April	58.2	+ 2.1	6.99	+3.18
May	62.2	- 4.8	10.09	+5.75
June	72.8	- 2.2	3.65	-0.17
July	79.8	+ 1.0	2.67	-0.31
August	76.4	- 1.1	3.40	+0.41
September	68.7	- 1.8	1.71	-1.75
October	58.4	- 0.4	4.99	+2.27
November	41.5	- 3.9	1.41	-1.42
December	37.5	+ 2.6	3.07	+0.86
For the year	55.2	- 1.0	46.80	+8.86

SUMMARY FOR THE YEAR 1929, ST. LOUIS, MO.

Latitude, N. 38 degrees, 38 minutes; longitude, W. 90 degrees, 12 minutes; elevation above sea level, Olive St. Lobby, Railway Exchange Building, 473 feet.

MONTH	TEMPERATURE						PRECIPITATION				RELATIVE HUMIDITY	WIND					NUMBER OF DAYS														
	MEAN			EXTREMES			Total	Greatest in 24 hrs.	Date	Snowfall		Average hourly velocity	Prevailing direction	MAXIMUM			Winds 33 miles or more per hour	Clear	Partly cloudy	Cloudy	Precipitation, .01 inch or more	Snow	Thunderstorms	Fogs, dense	MAXIMUM TEMPERA- TURE		MINIMUM TEMPERA- TURE				
	Maximum	Minimum	Monthly	Highest	Date	Lowest								Date	Velocity	Direction									Date	\$2 or lower	\$0 or above	\$2 or lower	Zero or lower		
January.....	38	18	28	61	22	3	13	2.11	0.70	14	3.3	80	66	70	12.3	NW	41	SW	22	3	12	6	13	12	13	0	5	8	0	30	0
February.....	37	21	29	58	24	4	5	0.88	0.52	25	5.7	80	62	63	9.1	NW	33	SW	23	1	12	8	12	10	14	0	11	0	0	28	0
March.....	61	41	51	92	24	22	10	5.33	1.96	25-26	T.	76	55	61	13.4	S	40	NW	6	5	12	8	11	11	1	1	0	1	7	0	0
April.....	67	50	58	87	4	36	1	6.99	3.19	7-8	0	77	62	62	13.9	SW	44	W	1	9	10	10	10	15	10	0	0	0	0	0	0
May.....	71	54	62	90	30	32	2	10.00	3.36	1-2	4.0	79	63	66	10.7	N	38	N	4	4	9	10	12	15	10	0	0	1	1	0	0
June.....	82	64	73	98	30	47	3	3.65	1.28	7	0	75	61	69	9.7	S	32	SW	11	0	15	7	8	10	0	0	0	4	0	0	0
July.....	88	71	80	98	28	58	20	2.67	1.11	6-7	0	76	58	59	8.8	SW	32	SW	6	0	11	14	6	13	0	0	0	15	0	0	0
August.....	85	67	76	99	2	57	28	3.40	2.70	6	0	75	56	58	8.5	S	33	SW	13	1	18	9	4	7	0	0	0	7	0	0	0
September.....	77	60	69	92	2	46	19	1.71	0.61	29-30	0	82	64	62	8.6	S	32	N	29	0	12	9	9	11	0	1	0	3	0	0	0
October.....	66	51	58	81	16	35	23	4.99	2.30	11-12	T.	76	60	60	10.3	E	25	N	22	0	14	4	13	11	1	0	1	0	0	0	0
November.....	48	35	42	69	12	8	30	1.41	0.65	28	6.5	75	62	63	9.7	NW	37	NW	27	1	9	9	12	5	4	1	3	0	9	0	0
December....	45	30	38	69	11	6	20	3.07	1.26	16-17	6.7	78	68	72	11.3	SW	41	SW	13	2	10	6	15	11	6	1	7	7	0	16	0
Year.....	63.7	46.8	65.2	99	Aug. 2	3	Nov. 30	46.30	3.36	May 1-2	26.2	77	62	63	10.5	SW	44	W	Apr. 1	26	140	100	125	131	40	46	17	29	31	86	0

**MONTHLY AND ANNUAL
MEAN MAXIMUM TEMPERATURE**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Anl.
1873..	.....	.....	.....	60.8	74.0	85.8	86.3	87.6	75.2	61.2	50.8	43.5	....
1874..	43.3	43.3	51.7	56.2	78.0	88.2	89.9	86.4	78.5	66.5	52.5	47.2	65.1
1875..	31.2	36.9	49.5	60.7	73.9	80.9	84.7	81.0	75.9	65.1	50.7	52.2	61.9
1876..	51.3	52.3	49.0	67.8	75.9	80.9	86.6	85.6	73.8	64.7	48.8	33.7	64.2
1877..	39.8	50.0	48.5	63.5	71.5	83.3	85.7	84.4	77.8	69.6	49.2	53.9	64.7
1878..	41.5	46.9	62.6	68.7	71.2	80.2	89.7	87.4	78.3	65.2	54.5	32.5	64.9
1879..	36.2	42.8	57.2	65.2	79.1	83.3	90.7	85.1	75.4	73.5	56.8	44.7	65.9
1880..	55.9	50.8	51.1	67.6	80.0	83.2	86.7	90.5	76.6	66.0	39.9	34.9	65.3
1881..	29.7	38.9	48.0	60.4	80.8	85.6	92.5	95.4	88.0	70.4	53.0	48.8	66.0
1882..	40.9	53.5	56.7	68.5	69.5	84.4	84.6	84.9	79.7	71.6	52.1	39.5	65.5
1883..	31.9	39.8	47.9	67.8	73.2	82.2	87.2	84.1	78.6	63.2	59.3	49.8	63.8
1884..	35.1	46.1	51.8	62.6	73.8	81.9	86.3	83.2	82.6	72.1	56.1	41.2	64.4
1885..	36.1	38.2	50.4	65.7	73.4	82.5	89.3	83.7	76.3	64.8	56.2	47.8	63.7
1886..	35.0	45.8	53.5	67.2	78.2	82.8	89.1	88.5	80.4	70.8	54.5	38.5	65.3
1887..	41.2	50.3	55.2	70.3	78.8	85.4	92.1	87.5	79.0	65.2	56.0	39.9	66.7
1888..	34.1	41.7	50.8	70.5	72.6	82.4	88.6	82.7	76.3	64.7	51.7	45.2	63.4
1889..	42.3	40.3	55.3	67.4	73.2	79.2	86.1	84.8	75.5	63.5	47.5	57.9	64.4
1890..	47.3	48.4	47.4	66.1	73.5	89.1	89.7	83.0	72.9	65.3	66.8	44.3	65.3
1891..	42.8	43.9	45.9	67.4	72.8	84.1	83.8	83.4	84.3	67.2	47.4	50.8	64.5
1892..	33.8	46.7	47.6	61.4	70.4	84.4	84.6	86.3	79.9	69.3	47.8	38.7	62.5
1893..	33.2	38.5	52.6	64.6	72.5	83.8	88.6	85.5	81.7	68.1	52.4	44.1	63.8
1894..	42.9	39.7	60.6	66.5	74.8	89.1	89.1	88.8	79.4	69.6	51.1	45.0	66.3
1895..	33.5	32.1	53.0	69.3	76.1	86.1	84.6	86.5	83.4	63.3	60.2	43.2	63.4
1896..	41.5	44.6	48.8	74.7	82.0	82.6	87.6	88.7	77.4	66.7	54.3	47.5	66.4
1897..	36.9	43.3	54.6	64.2	72.3	83.9	83.9	86.2	85.9	77.3	54.8	39.1	65.9
1898..	44.0	46.9	55.7	62.6	75.9	86.2	86.0	86.5	89.1	83.5	61.4	40.3	65.2
1899..	40.6	32.4	48.8	66.4	76.8	85.9	86.8	89.7	79.9	73.9	59.9	39.7	63.1
1900..	44.8	38.2	52.0	66.7	77.5	82.0	87.0	92.3	82.6	74.8	55.7	44.6	66.5
1901..	44.8	37.5	52.3	62.9	75.2	90.3	97.8	90.0	82.0	71.7	52.6	36.7	66.2
1902..	39.1	33.2	53.9	64.2	80.9	82.9	88.7	84.5	74.8	71.3	59.8	39.9	64.4
1903..	40.8	41.1	57.4	66.8	77.0	78.1	88.8	85.6	79.0	67.9	50.2	38.5	64.3
1904..	35.8	39.6	53.9	57.7	73.5	79.6	84.0	82.8	79.7	67.7	56.6	43.2	62.8
1905..	31.7	31.9	59.7	64.8	76.2	85.6	82.9	86.2	78.4	64.3	55.2	42.3	63.3
1906..	44.9	40.6	39.3	69.1	76.8	80.5	85.0	86.3	81.9	65.9	50.6	43.6	63.7
1907..	44.7	42.4	62.1	58.1	68.0	79.1	87.3	84.5	76.8	64.8	52.2	44.4	63.4
1908..	42.0	41.7	59.1	65.1	75.3	80.9	85.4	86.3	82.5	67.3	57.3	47.4	65.9
1909..	40.5	48.3	52.4	64.2	72.1	83.2	84.8	90.1	77.3	65.7	68.2	33.3	64.6
1910..	39.9	38.0	68.8	65.0	69.2	80.7	81.6	83.1	78.4	70.0	60.5	39.6	63.9
1911..	44.5	46.4	57.4	62.5	80.9	88.6	88.1	84.0	82.8	64.5	47.6	44.8	66.0
1912..	23.0	35.1	43.0	66.2	77.0	78.4	87.2	84.4	79.0	70.2	55.4	47.1	62.6
1913..	43.7	39.5	51.9	64.5	77.0	88.7	89.7	92.7	78.3	63.8	59.8	46.7	66.4
1914..	47.8	36.5	51.5	64.7	79.5	91.3	92.6	88.2	77.7	68.7	59.2	34.5	66.0
1915..	36.7	46.6	44.9	72.6	73.1	80.9	84.5	77.9	81.0	71.1	60.1	41.9	64.3
1916..	43.2	41.1	55.3	62.9	77.1	79.8	93.3	87.4	77.9	69.0	58.0	41.5	65.5
1917..	43.7	41.1	55.8	62.8	69.2	82.2	88.1	83.4	78.0	60.5	55.4	34.2	62.9
1918..	55.8	45.1	63.8	58.5	79.8	85.6	87.8	91.4	71.6	70.4	52.7	50.1	65.2
1919..	46.0	44.9	56.3	66.8	70.7	86.1	90.9	86.5	83.0	68.5	53.0	37.6	65.9
1920..	35.3	42.2	56.0	59.8	72.7	84.0	88.1	83.6	80.4	72.9	51.2	44.8	64.2
1921..	46.1	49.9	64.5	67.6	76.9	86.9	92.3	86.4	82.6	69.0	55.5	45.9	68.6
1922..	38.4	44.6	54.2	67.7	77.7	87.3	87.6	83.2	83.7	71.6	56.0	45.2	66.8
1923..	40.3	38.1	52.2	65.0	72.6	83.1	89.1	86.5	76.6	62.6	55.1	51.8	64.9
1924..	35.2	43.1	46.2	68.0	67.7	81.7	83.1	87.3	73.9	74.4	56.3	38.3	62.9
1925..	40.9	49.1	59.3	72.5	73.1	87.7	87.4	87.4	85.5	55.8	51.3	40.2	65.8
1926..	41.9	47.9	47.3	59.9	78.2	81.8	90.0	88.4	78.4	66.5	48.5	41.4	64.2
1927..	39.1	51.2	55.6	64.7	72.4	79.1	86.5	80.4	84.1	72.6	56.1	41.4	65.3
1928..	42.8	45.5	55.7	61.2	76.1	76.7	88.4	86.1	76.9	70.8	53.1	46.3	65.0
1929..	37.5	36.8	60.6	67.0	70.7	81.6	88.3	85.4	77.4	66.2	48.3	44.6	63.7
.....													
Normal	38.7	43.0	52.9	65.1	75.9	83.6	87.4	86.4	79.5	67.5	53.5	42.5	64.7

**MONTHLY AND ANNUAL
MEAN MINIMUM TEMPERATURE**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Anl.
1873..	.....	.....	.....	42.0	55.8	69.3	69.3	69.0	58.0	42.9	32.2	23.9	.....
1874..	27.1	28.9	34.6	38.4	59.1	69.2	72.6	69.8	61.5	49.8	35.1	29.0	47.9
1875..	14.7	15.1	30.9	41.4	54.3	63.4	70.9	64.1	58.0	43.9	31.9	34.8	43.8
1876..	31.2	30.4	32.0	48.1	58.6	65.7	72.1	71.2	60.5	46.9	34.2	15.7	47.2
1877..	22.5	33.9	29.7	46.3	55.6	65.5	70.1	67.4	61.8	52.6	36.1	42.7	48.7
1878..	30.0	34.8	46.0	53.1	55.8	65.2	73.7	71.0	59.4	48.3	39.4	21.4	49.8
1879..	18.9	24.8	39.5	45.0	58.4	63.8	71.2	66.2	55.7	54.7	39.1	25.3	46.9
1880..	37.8	30.3	35.2	48.1	60.4	65.6	68.9	68.8	58.5	46.4	26.0	21.6	47.3
1881..	14.6	23.4	31.0	43.1	62.3	66.5	71.7	72.2	65.3	53.5	35.5	34.3	47.8
1882..	26.1	35.8	37.3	49.6	51.0	64.6	66.2	67.3	60.0	53.0	38.8	25.7	48.0
1883..	15.8	22.6	31.3	46.8	52.7	64.0	68.3	65.2	57.4	50.0	41.6	31.8	45.6
1884..	17.3	27.4	36.6	46.5	56.8	66.4	70.9	67.3	67.4	55.5	37.8	26.1	48.0
1885..	16.7	16.7	32.5	48.2	57.5	66.6	74.1	68.1	62.0	48.5	40.4	30.3	46.8
1886..	16.2	27.4	36.8	51.6	60.5	67.1	72.1	70.4	64.0	52.4	37.8	21.3	48.1
1887..	20.5	31.3	37.1	51.1	63.4	68.8	75.4	70.6	61.1	43.3	34.6	23.7	48.4
1888..	16.2	24.4	31.1	48.4	53.7	65.0	71.0	66.8	57.0	45.3	35.0	31.2	45.7
1889..	27.4	22.5	37.9	48.4	54.4	62.1	69.6	66.0	58.4	46.7	35.3	41.6	47.5
1890..	31.1	32.0	30.7	48.2	54.2	69.6	70.0	66.4	57.2	49.3	40.5	31.0	48.4
1891..	30.5	27.9	32.0	50.0	54.3	67.3	66.0	66.2	63.8	47.9	35.1	34.7	48.0
1892..	18.5	33.4	33.3	46.6	55.3	68.8	69.6	69.2	60.7	51.0	35.2	27.2	47.4
1893..	16.4	23.1	35.1	48.5	55.4	66.6	71.8	66.7	63.4	49.1	35.8	28.6	46.7
1894..	28.1	25.0	41.8	49.2	57.1	67.7	69.3	69.0	62.2	50.6	33.9	32.7	48.9
1895..	19.0	18.1	35.2	50.8	57.0	68.1	68.1	69.3	64.8	43.8	36.2	30.9	46.7
1896..	28.5	29.1	32.4	54.8	63.9	65.4	70.4	70.1	59.0	47.6	38.1	34.2	49.5
1897..	24.4	30.2	38.7	47.7	54.7	66.4	72.2	67.4	65.9	55.3	37.4	26.5	48.9
1898..	30.6	29.8	38.7	46.2	58.3	69.5	70.5	70.3	65.2	48.5	34.8	24.9	48.9
1899..	24.6	15.8	30.4	49.1	60.5	68.9	70.8	72.5	60.8	54.8	44.5	26.3	48.2
1900..	29.9	21.3	33.6	49.4	60.1	66.8	70.7	75.4	65.6	56.8	39.0	31.4	50.0
1901..	29.7	24.4	37.2	45.9	57.3	70.8	76.9	70.0	61.5	51.9	35.4	23.7	48.7
1902..	25.8	19.7	39.7	46.5	62.6	65.6	71.9	68.2	58.0	53.1	46.8	28.0	48.8
1903..	26.6	26.1	41.5	48.1	61.0	62.6	72.7	68.9	60.1	50.6	33.4	21.0	47.7
1904..	19.8	22.1	35.9	40.7	56.7	65.0	67.9	66.1	62.3	49.7	39.7	26.2	46.0
1905..	16.7	14.8	40.1	46.8	58.1	66.9	68.0	68.9	63.2	48.5	38.1	28.3	46.5
1906..	28.7	23.8	28.1	50.5	57.8	64.1	68.0	69.9	64.9	47.9	37.0	29.5	47.5
1907..	27.7	26.4	43.7	38.8	49.8	63.3	70.5	68.6	60.4	47.1	36.7	31.6	47.0
1908..	26.0	26.9	40.4	47.1	58.5	65.4	70.0	68.7	64.2	48.4	39.9	30.4	48.8
1909..	25.2	30.6	35.0	44.3	54.9	66.7	69.2	72.1	59.3	46.8	45.6	19.4	47.4
1910..	25.4	20.4	46.7	46.6	52.5	63.9	69.1	67.3	62.4	51.5	33.5	24.8	47.0
1911..	26.5	30.3	36.8	45.8	61.7	70.1	70.5	67.7	65.7	50.2	30.9	32.1	49.0
1912..	12.9	20.8	28.3	48.2	59.5	62.2	70.4	68.0	62.7	51.4	39.3	30.1	46.2
1913..	26.0	24.3	32.3	47.7	57.6	68.2	72.0	73.3	61.5	48.5	45.0	35.6	49.8
1914..	31.6	18.4	35.5	48.0	59.4	70.9	73.6	69.6	61.6	58.0	41.4	22.6	48.8
1915..	22.5	34.4	32.1	53.7	56.2	63.0	68.1	62.9	63.7	52.3	41.7	28.8	48.3
1916..	25.0	24.6	34.6	45.9	58.8	63.2	75.0	70.0	59.3	49.4	40.2	25.8	47.7
1917..	25.9	19.6	37.3	44.6	52.1	64.4	69.7	67.2	60.0	41.7	40.0	19.5	45.2
1918..	11.9	26.1	41.5	43.7	61.9	68.6	69.1	73.7	55.5	54.2	39.8	36.0	48.5
1919..	29.7	28.5	37.9	48.2	55.2	68.5	72.8	67.7	64.2	53.2	36.6	21.7	48.6
1920..	21.4	27.4	37.3	42.5	57.0	66.5	69.4	66.6	64.6	55.0	36.2	30.2	47.8
1921..	32.3	34.3	43.5	48.6	60.1	69.8	74.1	68.6	66.3	50.1	39.1	31.2	51.5
1922..	22.0	28.1	38.2	48.7	61.1	69.0	69.9	70.0	63.8	52.9	41.6	28.2	49.5
1923..	32.7	22.7	30.7	45.0	55.6	67.3	72.1	69.8	61.5	47.2	40.7	37.0	48.5
1924..	18.1	28.2	33.6	48.8	51.0	65.0	66.9	69.0	56.0	54.9	38.8	21.7	46.0
1925..	25.1	32.5	37.9	52.7	53.5	69.0	70.6	69.2	68.9	43.2	35.5	25.4	48.6
1926..	27.2	32.5	31.8	40.7	58.7	63.3	72.1	70.5	63.4	50.2	32.5	25.5	47.4
1927..	24.1	35.1	40.2	49.2	56.6	63.3	68.7	63.9	66.5	53.1	39.9	23.5	48.7
1928..	26.6	29.6	36.4	43.6	57.2	60.5	71.4	69.1	57.9	53.5	38.8	31.0	48.0
1929..	17.7	20.7	41.1	49.5	58.8	64.1	71.3	67.3	60.0	50.7	34.7	30.4	46.8
....													
Normal	23.4	26.6	35.3	47.0	58.2	66.4	70.2	68.6	61.5	50.1	37.3	27.3	47.8

**MONTHLY AND ANNUAL
MEAN TEMPERATURE**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Anl.
1873..	.....	.....	.....	51.2	64.9	77.6	77.8	78.3	86.6	52.1	41.5	36.2	....
1874..	35.2	36.1	43.2	47.3	68.6	78.7	81.2	78.1	70.0	56.2	43.8	38.1	56.5
1875..	23.0	26.0	40.2	51.0	64.1	72.2	77.8	72.6	67.0	54.5	41.3	43.5	52.8
1876..	41.2	41.4	40.5	57.7	87.2	73.3	79.4	78.4	67.2	55.8	41.5	24.7	55.7
1877..	31.2	42.0	39.1	54.9	63.6	74.4	77.9	75.9	69.8	60.6	42.6	48.3	56.7
1878..	35.8	40.8	54.3	60.9	63.5	72.7	81.7	79.2	68.8	56.8	47.0	27.0	57.4
1879..	27.6	33.8	48.4	55.1	68.8	73.6	81.0	75.6	65.6	64.2	48.0	35.0	56.4
1880..	46.8	40.6	43.2	57.8	70.2	74.4	77.8	79.6	67.6	56.2	33.0	28.2	56.3
1881..	22.2	31.2	39.5	51.8	71.6	76.0	82.1	83.8	76.6	62.0	44.2	41.6	56.9
1882..	33.5	44.6	47.0	59.0	60.2	74.5	75.4	76.1	69.8	62.3	45.4	32.6	56.7
1883..	23.8	31.2	39.6	57.3	63.0	73.1	77.8	74.6	68.0	56.6	50.4	40.8	54.7
1884..	26.2	36.8	44.2	54.6	65.3	74.2	78.6	75.2	75.0	63.8	47.0	33.6	56.2
1885..	26.4	27.4	41.4	57.0	65.4	74.6	81.7	75.0	69.2	56.6	48.3	39.0	55.2
1886..	25.6	36.6	45.2	59.4	69.4	74.7	80.6	79.4	72.2	61.4	46.2	29.9	56.7
1887..	30.8	46.8	48.2	60.7	71.1	77.1	83.8	79.0	70.0	54.2	45.3	31.8	57.6
1888..	25.2	33.0	41.0	59.4	63.2	73.7	79.8	74.8	66.6	55.0	44.8	38.2	54.6
1889..	34.8	31.4	46.6	57.9	63.8	70.6	77.8	75.4	67.0	55.1	41.4	49.8	56.0
1890..	39.2	40.2	39.0	57.2	63.8	79.4	79.8	74.7	65.0	57.3	48.6	37.6	56.8
1891..	36.6	35.9	39.0	58.7	63.6	75.7	74.9	74.8	74.0	57.6	41.2	42.8	56.2
1892..	35.9	40.0	40.4	54.0	62.8	76.6	77.1	77.8	70.3	60.2	41.5	33.0	55.0
1893..	24.8	30.8	43.8	56.6	64.0	75.2	80.2	76.1	72.6	58.6	44.1	36.4	55.2
1894..	25.5	32.4	51.2	57.8	66.0	78.4	79.2	78.6	70.8	59.6	42.5	38.8	57.6
1895..	26.2	25.1	44.1	59.8	66.6	77.1	76.4	77.9	74.1	53.6	43.2	37.0	55.1
1896..	35.0	36.8	40.6	64.8	73.0	74.0	79.0	79.4	68.2	57.2	46.2	40.8	57.9
1897..	39.6	36.8	46.6	56.0	63.5	75.2	80.6	76.8	77.4	66.3	46.1	32.8	57.4
1898..	37.3	38.4	47.2	54.4	67.1	77.8	78.2	78.4	74.2	56.0	43.1	32.6	57.1
1899..	32.6	24.1	39.6	57.8	68.7	77.4	78.8	81.1	70.1	64.4	52.2	33.0	56.6
1900..	37.4	29.8	42.8	58.0	68.8	74.4	78.8	83.8	74.1	65.8	47.4	38.0	58.3
1901..	37.2	31.0	44.8	54.4	66.2	80.6	87.4	80.0	71.8	61.8	44.0	30.2	57.4
1902..	32.4	26.4	48.8	55.4	71.8	74.2	80.3	76.4	66.4	62.2	53.3	34.0	56.6
1903..	33.7	33.6	49.4	57.4	69.0	70.4	80.8	77.2	69.6	59.2	41.8	29.8	56.0
1904..	27.2	30.8	44.9	49.2	65.1	72.3	76.0	74.4	71.0	58.7	48.2	34.7	54.4
1905..	24.2	23.4	49.9	55.8	67.2	76.2	75.4	77.6	70.8	56.4	46.6	35.3	54.9
1906..	36.8	32.2	33.7	59.8	67.0	72.3	76.5	78.1	73.4	56.9	43.8	36.6	55.6
1907..	36.2	34.4	52.9	47.0	58.9	71.2	78.9	76.6	68.6	56.0	44.4	38.0	55.3
1908..	34.0	34.3	49.8	56.1	66.9	73.2	77.7	77.5	73.4	57.8	48.6	38.9	57.4
1909..	32.8	39.4	43.7	54.2	63.5	75.0	77.0	81.1	68.3	56.2	64.4	26.4	56.0
1910..	32.6	29.2	67.5	55.8	60.8	72.3	76.8	75.2	70.4	60.8	42.0	32.2	55.5
1911..	35.5	38.4	46.8	54.2	71.3	79.4	79.3	75.8	74.2	57.4	39.2	38.4	57.5
1912..	20.4	28.0	35.6	57.2	68.2	70.3	78.8	76.2	70.8	60.8	47.4	38.6	54.4
1913..	34.8	31.9	42.1	56.1	67.3	78.4	80.8	83.0	69.9	56.2	52.4	41.2	57.8
1914..	39.7	27.4	43.5	56.4	69.4	81.1	83.1	78.9	69.6	60.8	50.3	28.6	57.4
1915..	29.6	40.5	38.5	63.2	84.6	72.0	76.4	70.4	72.4	61.7	50.9	35.4	56.3
1916..	24.1	32.8	45.0	54.4	68.0	71.5	84.2	78.7	68.3	59.2	49.2	33.6	56.6
1917..	34.8	30.4	46.6	53.7	60.6	73.3	78.9	75.3	69.0	51.1	47.7	26.8	54.0
1918..	18.8	35.6	52.6	51.1	70.8	77.1	78.4	82.6	63.6	62.3	46.2	43.0	56.8
1919..	37.8	36.7	47.1	57.5	63.0	77.8	81.6	77.1	73.6	60.8	44.8	29.6	57.2
1920..	28.4	34.8	46.6	51.2	64.8	75.2	78.8	75.1	72.5	64.0	43.7	37.5	56.0
1921..	39.2	42.1	54.0	58.1	68.5	78.4	83.2	77.5	74.4	59.6	47.3	38.6	60.1
1922..	36.2	36.4	46.2	68.2	69.4	78.2	78.8	79.1	73.8	62.2	48.8	36.7	58.2
1923..	39.5	30.4	41.4	55.0	64.1	75.2	80.6	77.9	69.0	54.9	47.9	44.4	56.7
1924..	26.6	35.6	39.8	58.4	59.4	73.4	75.0	78.2	65.0	64.6	47.6	30.0	54.5
1925..	33.0	40.8	48.6	62.6	63.8	78.4	79.0	78.9	77.2	49.5	43.4	32.8	57.2
1926..	34.6	40.2	39.6	50.3	68.4	72.6	81.0	79.4	70.9	58.4	40.5	33.4	55.8
1927..	31.6	43.2	47.9	57.0	64.5	71.2	77.6	72.2	75.3	62.8	48.0	32.4	57.0
1928..	34.7	37.6	46.0	52.4	66.6	68.6	79.9	77.6	67.4	62.2	46.0	38.6	56.5
1929..	27.6	28.8	50.8	58.2	62.2	72.8	79.8	76.4	68.7	58.4	41.5	37.5	55.2
.....													
Normal	31.1	34.8	44.1	56.1	67.0	75.0	78.8	77.5	70.5	58.8	45.4	34.9	56.2

TEMPERATURE EXTREMES FOR EACH MONTH

(Record extends from January 1, 1871, to December 31, 1929.)

Month	High- est	Year	Day	Low- est	Year	Day
January.....	*74	1911	11	-22	1884	5
February.....	84	1911	1	-18	1905	13
March.....	92	1929	24	3	1899	7
April.....	*91	1925	22	*22	1920	5
May.....	*94	1926	29	*32	1929	2
June.....	102	1901	29	44	1894	6
July.....	107	1901	24	*56	1924	3
August.....	106	1881	12	*52	1915	31
September.....	103	1925	5	37	1899	30
October.....	91	1897	5	21	1925	30
November.....	82	1879	13	3	1929	30
December.....	75	1928	28	-15	1880	29

* Has occurred on previous dates also.

WIND VELOCITIES

Month	§ Maximum				|| Extreme			
	Highest velocity	Direc- tion	Year	Day	Highest velocity	Direc- tion	Year	Day
January.....	54	sw.	1898	25	64	sw.	1898	25
February.....	53	sw.	1918	14	59	sw.	1918	14
March.....	*60	sw.	1920	25	79	sw.	1918	9
April.....	51	sw.	1917	30	61	w.	1922	14
May.....	64	nw.	1896	27	87	nw.	1896	27
June.....	56	sw.	1919	16	62	sw.	1919	16
July.....	*47	nw.	1910	25	54	w.	1904	11
August.....	58	nw.	1878	4	63	sw.	1919	20
September.....	57	s.	1927	29	77	w.	1927	29
October.....	54	sw.	1918	27	64	sw.	1918	27
November.....	52	sw.	1919	29	67	nw.	1926	26
December.....	49	nw.	1885	4	51	w.	1891	6

Velocities prior to 1928, which were recorded with a 4-cup anemometer, have been corrected to 3-cup values, which are closer to the true velocities.

* Has occurred on previous dates also.

§ For 5-minute period. Record includes 1873 to 1929, inclusive.

|| Mile recorded in shortest time. Record includes 1888 to 1904, inclusive and 1912 to 1929, inclusive.

MAXIMUM PRECIPITATION

Period	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
5 minute*	.15	.16	.44	.41	.51	.40	.53	.59	.56	.42	.26	.40
10 minute*	.16	.21	.71	.68	.68	.60	.80	1.04	.82	.55	.37	.53
15 minute*	.23	.24	.87	.80	.80	.92	1.01	1.39	1.03	.61	.48	.59
30 minute*	.32	.31	1.02	1.11	.99	1.19	1.66	2.56	1.53	.90	.56	.64
1 hour*	.48	.44	1.24	1.23	1.04	1.88	2.95	3.36	2.42	1.07	.61	.71
2 hour*	.78	.65	1.59	2.41	1.37	2.13	3.15	3.46	3.02	1.52	.93	.78
1 day†	3.57	4.44	3.88	3.97	3.39	4.80	5.08	7.02	3.73	3.44	3.61	3.04
2 day†	3.70	6.71	4.47	4.21	3.85	5.49	5.11	7.40	3.78	5.20	3.76	3.23
3 day†	3.87	6.72	5.04	4.66	3.95	5.76	5.11	7.53	3.87	5.57	3.84	3.23

* Record includes 1903 to 1929, inclusive.

† Record includes 1871 to 1929, inclusive.

MAXIMUM TEMPERATURE FOR EACH DAY OF YEAR. RECORD EXTENDS FROM APRIL 1, 1873, TO DECEMBER 31, 1929, INCLUSIVE

Date	January		February		March		April		May		June		July		August		September		October		November		December		Date
	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	Max.	Year	
1	67	1876	84	1911	79	1887	88	1888	88	1901	95	1895	100	1901	98	1897	99	1913	*89	1919	80	1927	72	1883	1
2	64	1897	64	1920	78	1882	87	1882	90	1901	96	1895	98	1926	105	1901	99	1922	*90	1897	77	1887	66	1917	2
3	68	1880	75	1890	76	1880	87	1882	*90	1902	*98	1911	100	1911	100	1881	99	1925	*90	1922	79	1887	68	1916	3
4	68	1888	78	1890	77	1910	87	1929	*87	1902	97	1911	101	1911	105	1918	102	1925	90	1897	80	1900	71	1916	4
5	68	1890	70	1927	82	1918	85	1929	89	1882	95	1911	101	1901	104	1918	103	1925	91	1897	79	1916	71	1918	5
6	67	1907	69	1925	78	1916	87	1882	89	1896	96	1925	100	1874	102	1919	*102	1925	*86	1927	81	1915	65	1883	6
7	67	1907	69	1904	76	1879	88	1893	90	1883	95	1874	*100	1881	100	1896	100	1899	*86	1916	80	1915	69	1916	7
8	69	1885	66	1925	78	1879	89	1890	89	1895	95	1914	96	1881	100	1896	97	1925	88	1897	74	1915	68	1918	8
9	65	1876	73	1876	80	1925	88	1905	92	1895	*98	1914	102	1881	105	1891	101	1925	89	1879	76	1902	74	1918	9
10	68	1890	74	1887	79	1879	84	1896	91	1928	*98	1914	*104	1901	101	1918	*96	1897	87	1879	*78	1911	69	1929	11
11	*74	1911	68	1887	80	1911	86	1896	91	1914	98	1902	104	1901	104	1881	*86	1897	*89	1890	76	1902	*69	1929	12
12	69	1890	73	1882	74	1887	85	1916	*90	1902	96	1902	102	1901	106	1881	98	1897	90	1899	82	1879	70	1889	13
13	*59	1928	72	1907	84	1918	88	1883	91	1915	*95	1902	100	1914	*98	1909	97	1927	90	1899	73	1897	64	1891	14
14	71	1928	72	1921	79	1875	*86	1887	89	1900	96	1894	98	1890	100	1894	*98	1893	90	1899	73	1897	67	1877	15
15	69	1901	73	1921	80	1914	87	1896	*90	1915	*95	1925	98	1879	98	1913	*98	1927	90	1897	72	1897	70	1889	16
16	67	1928	76	1911	*75	1927	88	1896	92	1894	100	1918	99	1887	102	1886	98	1927	86	1897	76	1896	72	1908	17
17	72	1864	77	1911	82	1894	*87	1896	*89	1911	*98	1918	101	1913	*100	1881	*94	1927	85	1892	78	1896	69	1877	18
18	72	1880	69	1913	81	1886	87	1896	*90	1911	97	1913	102	1913	100	1880	97	1925	*85	1924	77	1896	68	1889	19
19	67	1907	70	1918	84	1907	85	1915	90	1917	98	1914	98	1901	101	1880	96	1925	*84	1924	73	1908	*68	1889	20
20	72	1906	71	1897	81	1921	88	1896	98	1902	97	1887	102	1881	97	1900	95	1881	*82	1920	75	1913	66	1877	21
21	67	1921	71	1922	90	1907	89	1902	92	1925	98	1914	106	1901	99	1900	97	1881	83	1920	75	1913	*64	1904	22
22	65	1909	74	1922	88	1907	91	1925	94	1925	99	1901	107	1901	98	1929	*92	1895	85	1927	77	1900	66	1893	23
23	73	1909	67	1916	87	1910	88	1925	91	1921	100	1901	106	1901	96	1914	*94	1891	84	1894	67	1904	66	1889	24
24	67	1909	70	1890	92	1929	89	1925	*92	1921	99	1914	107	1901	100	1922	*94	1891	83	1921	*65	1910	73	1889	25
25	61	1916	*68	1917	84	1907	87	1906	98	1911	*99	1914	*99	1901	99	1881	*92	1900	82	1882	*68	1915	71	1889	26
26	72	1890	72	1896	*80	1910	85	1906	94	1911	101	1914	100	1918	102	1881	94	1897	83	1927	75	1927	63	1875	27
27	68	1914	75	1896	87	1910	88	1899	96	1911	99	1894	*98	1914	102	1881	91	1891	85	1927	70	1909	70	1923	28
28	68	1914	68	1904	85	1910	88	1899	92	1911	99	1881	*98	1929	101	1913	91	1898	85	1927	77	1905	75	1928	29
29	67	1911	65	1924	85	1895	91	1899	94	1926	102	1901	*98	1913	97	1925	89	1881	83	1901	66	1881	65	1885	30
30	67	1884	..	....	83	1895	*89	1901	*93	1913	100	1901	*99	1916	96	1925	*89	1922	*81	1900	69	1899	*86	1929	31
31	66	1877	..	....	*82	1929	..	....	94	1895	..	....	*99	1919	99	1873	..	....	80	1915	..	....	74	1875	31

* Has occurred on previous dates also.

MINIMUM TEMPERATURE FOR EACH DAY OF YEAR. RECORD EXTENDS FROM APRIL 1, 1873, TO DECEMBER 31, 1929, INCLUSIVE

Date	January		February		March		April		May		June		July		August		September		October		November		December		Date
	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	Min.	Year	
1	-10	1887	*-1	1917	6	1890	23	1881	35	1909	47	1889	*58	1924	58	1925	55	1888	40	1886	*26	1911	4	1876	1
2	-9	1879	*-10	1917	5	1913	25	1881	*32	1929	*50	1929	56	1924	*56	1927	54	1892	*42	1876	22	1911	4	1886	2
3	-12	1879	-8	1886	10	1884	25	1879	37	1907	*47	1929	55	1924	53	1927	55	1885	39	1888	25	1879	2	1886	3
4	-9	1879	*-7	1912	9	1891	24	1886	35	1907	48	1882	56	1927	*55	1912	51	1891	42	1901	25	1879	8	1886	4
5	-22	1884	-2	1895	12	1920	22	1920	38	1917	50	1882	55	1915	*59	1915	51	1891	45	1901	*28	1908	8	1886	5
6	-11	1884	*5	1907	6	1899	29	1881	37	1890	44	1894	*62	1924	61	1929	*53	1889	36	1873	26	1877	10	1880	6
7	-14	1912	-3	1895	3	1899	30	1880	*40	1890	51	1875	61	1906	*62	1921	52	1898	35	1889	30	1876	-6	1882	7
8	-6	1875	-12	1895	15	1920	*30	1923	38	1923	48	1913	56	1891	57	1904	51	1879	*38	1921	23	1925	-2	1882	8
9	-16	1875	-16	1899	9	1877	26	1914	39	1923	47	1913	55	1891	54	1884	43	1883	37	1915	24	1926	-5	1876	9
10	-7	1886	-6	1885	14	1892	29	1909	40	1907	48	1913	60	1890	56	1884	47	1883	33	1906	20	1926	-4	1917	10
11	-14	1918	-9	1899	18	1892	29	1882	35	1907	51	1903	57	1898	58	1882	43	1917	34	1876	18	1911	2	1917	11
12	-17	1918	-16	1899	14	1906	31	1882	41	1878	50	1903	62	1918	*61	1924	45	1878	32	1909	12	1911	1	1917	12
13	-8	1912	-18	1905	15	1926	30	1907	*42	1920	51	1875	61	1882	58	1888	44	1890	*33	1917	17	1911	1	1903	13
14	-9	1881	-2	1905	14	1891	*30	1928	37	1920	*54	1906	58	1882	67	1924	*47	1923	36	1889	15	1916	-2	1901	14
15	-12	1889	-4	1905	9	1890	27	1928	42	1907	51	1917	61	1882	*57	1929	*49	1916	31	1876	*19	1883	-5	1901	15
16	-9	1888	-3	1885	11	1900	25	1875	39	1875	49	1917	62	1912	*60	1897	48	1903	33	1875	17	1880	-4	1876	16
17	-1	1885	-6	1903	10	1900	22	1875	42	1891	52	1876	58	1896	55	1879	45	1903	36	1880	*14	1891	-3	1875	17
18	-4	1887	-1	1903	6	1923	30	1875	45	1894	52	1876	59	1924	58	1879	*43	1901	28	1880	14	1903	-4	1884	18
19	-2	1885	3	1903	4	1923	34	1926	40	1894	54	1882	60	1910	58	1875	44	1901	33	1925	8	1880	-7	1884	19
20	-3	1883	-4	1885	13	1906	28	1904	41	1894	53	1882	59	1880	*59	1927	40	1875	31	1916	14	1914	-10	1901	20
21	-7	1885	-1	1885	8	1876	32	1904	38	1883	56	1902	60	1877	58	1895	*42	1918	*30	1916	9	1880	0	1887	21
22	-10	1885	-4	1885	13	1885	31	1875	37	1883	*58	1902	60	1880	55	1875	42	1913	35	1917	10	1880	2	1916	22
23	-6	1886	-1	1910	22	1885	23	1910	*42	1917	*56	1905	62	1904	*54	1891	45	1896	29	1917	13	1880	4	1878	23
24	-11	1894	4	1910	21	1874	25	1910	41	1925	59	1889	57	1876	52	1887	43	1928	33	1873	13	1884	-3	1878	24
25	*-6	1905	6	1900	17	1894	33	1910	38	1925	57	1928	59	1911	56	1915	41	1879	24	1887	16	1874	-1	1879	25
26	-6	1904	7	1879	14	1894	36	1907	43	1925	*58	1928	58	1911	*54	1910	39	1926	33	1887	10	1898	-2	1892	26
27	0	1902	0	1888	20	1894	37	1873	42	1907	56	1926	60	1907	55	1885	41	1908	30	1878	12	1898	-3	1886	27
28	-4	1915	4	1890	22	1921	32	1874	44	1906	59	1875	61	1925	*55	1916	40	1908	24	1925	10	1887	-8	1924	28
29	-3	1899	9	1884	22	1894	32	1874	*48	1889	55	1923	62	1925	*54	1911	*38	1908	24	1925	8	1929	-15	1880	29
30	*0	1909	..	....	21	1923	*35	1907	42	1889	57	1885	59	1888	52	1911	37	1899	21	1925	3	1929	-5	1880	30
31	-4	1899	..	....	17	1923	..	....	42	1889	..	....	58	1925	52	1915	..	....	25	1873	..	..	-1	1927	31

* Has occurred on previous dates also.

MONTHLY AND ANNUAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Anl.
1837..	0.70	1.08	3.43	1.40	3.13	2.77	4.07	3.10	2.88	1.15	1.60	1.70	27.01
1838..	3.72	1.25	1.51	3.36	4.68	3.73	3.13	4.48	0.06	3.06	2.09	0.44	31.51
1839..	2.21	2.50	2.59	5.46	7.93	7.26	5.71	2.89	2.45	3.96	2.48	2.00	47.44
1840..	1.80	1.38	2.10	3.31	4.58	6.27	2.36	7.15	3.96	6.30	1.73	0.71	41.65
1841..	0.84	0.88	4.09	3.85	2.38	1.67	3.09	5.63	3.22	6.81	5.44	3.93	42.73
1842..	0.45	3.90	2.22	3.49	3.22	5.12	1.78	2.64	2.17	2.57	2.38	2.39	32.31
1843..	2.34	1.90	3.49	4.87	4.15	3.95	2.49	1.32	2.19	1.55	4.82	1.72	34.79
1844..	3.36	1.73	4.84	3.86	11.26	6.85	8.13	0.45	0.30	2.25	1.17	1.61	45.81
1845..	1.83	1.07	3.18	2.28	4.42	10.01	4.75	6.23	1.03	1.16	1.10	0.93	37.99
1846..	2.98	1.27	1.27	4.84	3.75	5.21	0.84	4.73	4.84	2.71	2.11	10.90	45.45
1847..	2.12	3.58	2.28	3.98	4.36	8.61	5.37	0.90	3.26	8.74	8.63	0.89	52.72
1848..	1.96	2.27	6.61	3.16	8.10	17.07	5.37	9.74	1.12	2.41	1.91	5.74	65.36
1849..	4.18	0.56	2.70	2.64	2.71	6.46	9.40	5.15	5.81	2.17	2.11	1.82	45.71
1850..	1.94	4.10	5.63	7.68	7.47	1.47	4.83	2.10	3.74	2.71	6.24	2.59	50.50
1851..	0.61	6.74	3.14	4.70	2.83	6.19	5.77	8.97	0.49	1.51	1.99	3.90	46.84
1852..	0.99	2.12	7.67	2.28	5.19	10.25	3.36	1.60	1.47	5.28	3.29	3.48	46.96
1853..	0.52	1.67	0.79	3.24	3.64	3.23	4.10	5.48	4.67	0.96	1.51	1.08	30.89
1854..	1.18	3.11	7.49	7.60	6.30	3.21	0.92	1.80	1.44	4.15	1.94	1.49	40.63
1855..	4.66	0.70	2.89	2.65	7.46	4.27	5.17	6.53	3.89	3.89	5.16	3.10	50.37
1856..	1.03	3.64	1.06	6.35	3.03	1.24	4.61	6.82	3.51	2.10	4.90	4.29	42.58
1857..	0.41	7.74	1.80	1.72	4.81	3.71	2.82	4.15	3.18	3.02	3.80	1.87	39.03
1858..	3.42	2.12	3.96	6.07	10.64	6.69	8.03	2.87	3.86	7.73	4.92	8.52	68.83
1859..	2.32	5.35	7.32	4.89	6.60	11.02	5.54	2.93	4.44	1.80	5.43	3.76	61.40
1860..	1.80	2.60	1.16	2.03	2.29	6.58	2.97	2.96	2.11	1.58	1.63	2.08	29.79
1861..	1.16	2.01	7.38	3.18	4.39	4.96	2.04	3.44	4.14	2.85	1.99	1.09	38.03
1862..	4.01	0.80	4.11	4.82	2.51	2.85	3.61	1.32	6.27	3.73	3.59	6.38	44.00
1863..	4.11	3.99	3.02	1.55	2.68	3.16	2.51	6.93	1.56	4.76	2.15	4.03	40.45
1864..	2.74	0.82	1.71	5.58	3.90	0.41	3.60	4.91	2.82	3.15	5.25	2.72	37.61
1865..	0.87	3.75	6.61	3.31	5.66	5.21	7.94	1.96	2.60	3.33	0.00	3.63	46.87
1866..	4.16	2.24	2.80	1.56	2.24	5.59	3.67	5.16	10.53	2.01	1.37	1.87	43.20
1867..	2.28	4.81	2.37	0.53	8.26	5.64	3.71	2.29	0.17	1.31	2.74	3.65	37.76
1868..	1.71	0.55	7.66	7.08	3.96	1.58	2.03	8.53	5.25	2.11	2.04	3.09	45.59
1869..	2.02	2.49	4.24	4.61	3.60	6.25	2.49	5.51	1.70	3.42	7.48	3.16	46.97
1870..	2.25	0.28	2.76	2.39	2.05	1.46	1.81	6.05	1.07	3.40	1.87	1.69	27.08
1871..	2.53	2.92	1.27	0.49	3.15	2.51	1.64	3.55	0.25	2.07	1.83	1.17	23.38
1872..	0.64	1.15	2.43	2.77	6.04	4.28	4.59	0.93	3.38	0.55	2.01	1.70	30.47
1873..	3.53	1.52	2.10	6.88	5.73	6.68	5.96	0.07	3.02	3.27	1.64	5.10	45.50
1874..	3.14	3.66	4.36	3.44	3.70	2.00	5.71	4.70	2.30	1.09	2.32	1.46	37.88
1875..	0.54	2.59	4.08	2.53	5.48	10.84	9.50	2.66	0.24	1.23	0.89	2.42	43.00
1876..	4.75	2.86	6.90	2.25	3.13	6.43	5.90	5.03	7.63	1.66	1.74	0.13	48.46
1877..	1.24	0.88	3.41	3.03	3.11	8.69	2.88	2.61	3.56	4.92	3.76	3.34	41.43
1878..	2.36	1.69	2.79	6.74	4.63	2.40	3.92	4.75	3.42	3.27	1.58	3.48	40.83
1879..	1.64	1.48	1.92	2.31	0.95	4.04	1.97	2.23	1.34	0.68	4.30	2.84	25.70
1880..	3.83	2.65	2.51	3.31	3.44	2.56	5.17	1.53	3.10	2.09	2.67	1.80	34.66
1881..	0.49	4.16	1.95	3.14	3.96	2.74	2.13	0.31	3.14	7.21	6.74	1.40	37.37
1882..	2.80	8.94	3.49	3.58	4.55	4.53	3.84	2.20	1.73	2.44	3.24	1.81	43.15
1883..	0.94	5.88	2.29	3.31	2.89	5.04	4.31	3.34	0.01	6.60	3.71	1.78	40.10
1884..	0.79	4.43	3.00	4.15	2.68	4.52	2.86	1.21	6.04	2.48	2.30	6.18	40.64
1885..	3.26	0.87	0.40	4.84	2.80	7.68	2.58	2.96	8.98	7.51	1.68	2.03	45.59
1886..	3.11	1.71	3.04	2.10	7.84	7.09	0.55	2.44	9.60	0.85	3.36	2.65	44.34
1887..	0.65	3.68	3.54	4.36	5.27	2.54	2.74	1.14	2.47	0.76	4.61	3.54	35.30
1888..	2.15	2.39	3.79	1.88	3.81	8.09	2.09	6.66	1.31	2.59	4.40	2.01	41.17
1889..	3.04	4.78	1.62	1.68	3.80	4.72	2.02	0.85	3.54	1.65	4.43	1.03	33.16
1890..	7.47	2.86	5.99	4.05	5.81	3.18	0.37	2.43	1.80	0.88	1.55	1.32	37.69
1891..	1.35	2.95	2.29	2.29	2.73	5.97	1.50	2.75	1.43	0.65	5.30	1.22	30.53
1892..	1.52	4.89	1.92	7.60	7.87	2.73	4.64	1.75	1.59	1.66	3.48	1.90	41.62
1893..	0.33	2.98	5.10	10.84	5.42	3.49	2.49	0.65	3.69	1.66	1.36	1.32	39.33
1894..	2.56	2.88	2.69	2.68	3.61	1.12	1.35	1.66	3.11	1.56	1.49	2.73	27.44
1895..	1.65	0.43	2.82	0.46	3.16	2.46	7.26	2.08	2.01	0.23	3.98	4.66	31.20
1896..	1.43	2.81	2.03	2.43	9.12	4.57	4.67	2.12	2.42	1.20	3.70	1.05	37.55
1897..	3.75	2.67	8.25	4.66	1.59	5.32	3.23	0.66	0.09	0.31	6.21	3.43	40.17
1898..	4.53	1.71	7.73	3.85	8.55	3.85	7.44	0.87	3.23	4.34	2.07	1.03	49.20
1899..	1.66	3.40	3.96	1.98	6.32	2.32	4.54	2.77	1.27	2.59	1.95	1.55	34.61
1900..	0.65	5.09	1.45	1.83	4.47	2.62	3.85	1.30	2.68	2.07	3.10	0.40	29.51

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**MONTHLY AND ANNUAL
PRECIPITATION—CONCLUDED**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Anl.
1901..	1.12	1.86	2.94	2.35	2.69	3.92	1.47	0.76	0.64	2.12	1.21	3.72	24.80
1902..	1.18	0.83	4.50	2.49	3.04	7.86	2.34	5.20	1.98	2.00	3.20	3.81	38.43
1903..	1.76	3.14	3.20	2.79	2.08	5.71	2.68	6.16	3.06	1.37	0.61	1.25	33.81
1904..	3.15	0.84	7.87	3.25	2.88	4.64	3.09	2.62	2.97	0.50	0.54	1.36	33.71
1905..	2.47	1.12	2.35	2.32	4.67	2.72	4.42	2.58	5.56	6.64	1.63	2.06	38.54
1906..	3.57	2.92	4.53	1.98	2.61	2.80	0.98	3.72	4.40	1.25	4.67	2.09	35.52
1907..	1.35	1.12	2.39	3.65	5.57	4.96	3.32	4.36	1.57	3.15	1.89	2.06	41.39
1908..	2.08	3.39	3.43	3.84	7.72	3.02	4.24	1.55	1.24	0.21	2.83	0.64	34.19
1909..	3.20	3.94	3.69	6.18	5.99	2.63	7.34	0.66	4.22	3.40	4.36	1.89	47.50
1910..	2.73	3.22	0.14	4.09	5.23	4.24	4.21	1.90	6.09	3.98	0.30	1.18	37.31
1911..	0.85	3.02	2.22	7.46	2.26	1.34	0.64	3.51	7.09	2.63	3.44	1.67	36.13
1912..	1.31	2.80	5.85	7.84	4.29	6.93	5.29	2.65	2.84	2.61	1.76	0.42	44.59
1913..	4.34	1.20	7.97	3.57	1.53	1.55	3.61	1.59	4.50	4.08	3.12	1.62	38.68
1914..	2.21	4.63	1.25	1.92	0.69	0.10	1.52	5.42	6.68	7.45	1.53	2.23	35.63
1915..	2.83	2.30	0.44	1.20	7.67	9.77	8.02	11.43	1.41	0.90	1.97	3.34	49.28
1916..	8.58	1.78	1.83	1.78	3.00	3.97	1.20	10.69	2.69	1.64	2.53	2.16	41.80
1917..	1.72	0.35	1.80	4.64	3.78	0.62	3.17	1.99	3.50	1.87	0.78	0.78	25.00
1918..	1.31	2.09	0.67	7.09	3.28	1.47	0.60	5.26	5.09	3.63	2.73	2.69	35.91
1919..	0.18	1.54	1.72	1.76	7.86	5.30	1.50	3.03	6.13	8.52	2.08	1.22	40.79
1920..	1.85	0.74	3.97	3.43	5.00	1.53	0.73	4.16	4.79	2.36	0.56	2.41	31.58
1921..	1.10	1.08	6.14	7.01	4.29	2.31	2.05	2.75	5.60	1.45	4.43	2.89	41.10
1922..	0.74	1.52	4.84	7.40	1.26	0.80	2.42	1.79	2.49	1.74	2.38	4.98	32.34
1923..	2.08	1.50	4.26	3.20	5.86	4.33	1.83	6.19	3.51	3.74	1.90	3.30	41.69
1924..	1.15	1.29	3.24	1.90	6.18	6.80	3.62	3.90	1.97	0.30	1.53	4.63	36.51
1925..	0.53	2.19	1.50	2.70	1.48	4.84	1.78	2.75	4.59	4.32	4.09	1.46	32.23
1926..	1.69	2.52	3.95	4.42	1.58	1.72	0.54	1.83	7.40	3.84	2.71	1.15	33.35
1927..	3.66	0.56	7.67	6.30	9.21	2.59	2.79	3.60	2.93	4.65	5.56	2.31	50.83
1928..	1.91	2.43	2.27	3.02	2.18	7.25	6.66	4.83	1.70	2.24	1.90	2.22	38.61
1929..	2.11	0.88	5.33	6.99	10.09	3.65	2.67	3.40	1.71	4.99	1.41	3.07	46.30
.....													
Normal	2.34	2.56	3.33	3.81	4.34	3.82	2.98	2.99	3.46	2.72	2.83	2.21	37.44

Authorities: 1837, Medical Department, United States Army (St. Louis Arsenal). 1838-1869, Dr. George Engelmann. 1870, St. Louis University. 1871-1929, United States Weather Bureau.

**EXTREMES OF
PRECIPITATION AND SNOWFALL**

Month	Precipitation			Snowfall		
	Greatest in 24 hours	Year	Day	Greatest in 24 hours	Year	Day
January.....	3.57	1890	1	12.0	1909	11-12
February.....	4.44	1882	19-20	15.5	1912	20-21
March.....	3.88	1913	24-25	20.4	1890	30-31
April.....	3.97	1878	22-23	5.5	1904	20
May.....	3.39	1886	14-15	4.0	1929	2
June.....	4.80	1902	28	0	.....	.....
July.....	5.08	1898	7-8	0	.....	.....
August.....	7.02	1915	19-20	0	.....	.....
September.....	3.73	1919	28	T.	1912	29
October.....	3.44	1919	25-26	0.3	1913	29
November.....	3.61	1921	18-19	6.5	1929	28
December.....	3.04	1922	26-27	9.5	1915	24-25

* Has occurred on previous dates also.

Precipitation record extends from January 1, 1871, to December 31, 1929, and snowfall record extends from January 1, 1884, to December 31, 1929.

SEASONAL SNOWFALL

Season	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Total
1884-85	0	0	0	9.6	10.5	4.2	0.3	0	0	24.6
1885-86	0	0	0	3.9	9.6	T.	1.0	6.5	0	21.0
1886-87	0	0	4.0	7.4	3.5	T.	3.5	0.8	0	19.2
1887-88	0	0	0.1	0.7	4.3	3.3	0	0	0	8.4
1888-89	0	0	1.2	T.	1.5	10.0	T.	0	0	12.7
1889-90	0	0	T.	0	4.0	7.5	21.0	0	0	32.5
1890-91	0	0	0	11.0	3.2	1.1	3.3	T.	0	18.6
1891-92	0	0	0	0	14.0	T.	2.0	0	0	16.0
1892-93	0	0	0	0.5	2.3	8.7	2.6	T.	0	14.1
1893-94	0	0	T.	0.6	2.2	5.6	0.3	0	0	8.7
1894-95	0	0	T.	T.	8.1	3.7	9.3	T.	0	21.1
1895-96	0	0	0	4.0	3.5	T.	8.1	6.6	0	17.2
1896-97	0	0	0.7	T.	5.2	7.1	T.	T.	0	18.0
1897-98	0	0	0	T.	4.3	0.9	0.8	3.8	T.	9.8
1898-99	0	0.2	0.5	3.5	2.9	6.4	10.3	4.5	0	28.3
1899-00	0	0	3.7	6.1	T.	9.3	0.5	T.	0	19.6
1900-01	0	0	0	1.7	0.2	8.6	2.1	4.5	0	17.1
1901-02	0	0	T.	6.9	6.6	1.7	T.	0	0	15.2
1902-03	0	0	0.3	1.7	8.4	7.6	0.3	T.	0	18.3
1903-04	0	0	1.5	2.7	14.3	2.5	T.	5.5	0	26.5
1904-05	0	0	0	5.4	6.8	7.5	0	0	0	19.7
1905-06	0	T.	T.	T.	5.0	15.9	17.5	T.	0	38.4
1906-07	0	0	2.0	1.6	2.2	7.9	T.	T.	0	13.7
1907-08	0	0	0.1	6.5	6.0	4.4	2.7	0	0	19.7
1908-09	0	0	0	0.1	14.2	4.7	T.	0	T.	19.0
1909-10	0	T.	0	9.1	1.0	21.3	0	2.3	0	33.7
1910-11	0	T.	0	2.2	0.5	13.0	3.5	0	0	19.2
1911-12	0	T.	1.8	2.6	13.2	21.2	28.8	T.	0	67.6
1912-13	T.	0	T.	0.1	T.	7.0	8.6	0	0	15.7
1913-14	0	0.3	0	11.2	3.0	23.5	5.2	T.	0	43.2
1914-15	0	0	T.	2.4	11.6	1.6	2.0	T.	0	17.6
1915-16	0	0	T.	13.0	2.7	5.7	9.4	0.5	0	31.3
1916-17	0	0.1	0.1	2.5	2.5	1.0	0.3	1.0	0	7.5
1917-18	0	0.2	0.1	7.5	11.7	0.2	0	T.	0	19.7
1918-19	0	0	T.	0.5	0.7	3.1	1.2	T.	0	5.5
1919-20	0	0	T.	0.3	9.3	1.0	1.9	0.2	0	12.7
1920-21	0	T.	T.	3.4	2.2	T.	0	T.	0	5.6
1921-22	0	0	T.	2.4	4.1	0.8	5.2	0	0	12.5
1922-23	0	0	T.	0.5	0	5.1	0.1	T.	T.	5.7
1923-24	0	0	T.	0.7	3.9	2.3	15.8	T.	0	22.7
1924-25	0	0	1.1	2.1	4.9	3.4	T.	0	0	11.5
1925-26	0	0.1	0.1	0.2	3.1	T.	2.1	T.	0	5.6
1926-27	0	0	10.4	2.0	1.7	2.1	3.0	T.	0	19.2
1927-28	0	0	0.8	2.5	1.1	5.1	0.2	T.	0	9.7
1928-29	0	0	T.	T.	3.3	5.7	T.	0	4.0	13.0
1929-30	0	T.	6.5	6.7	....	....	....	....	....	....

MONTHLY AND ANNUAL HIGHEST RIVER STAGES

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Anl.
1860..													
1861..	3.8	13.8	18.2	22.0	25.5	19.8	23.9	12.2	11.0	14.3	8.4	9.8	25.5
1862..	11.9	11.4	18.5	31.4	30.1	20.9	20.7	16.2	11.3	12.5	10.2	14.6	31.4
1863..	15.2	16.6	18.0	16.4	14.4	14.8	11.9	11.9	6.9	4.2	5.3	4.2	18.0
1864..	7.0	9.8	11.1	19.4	20.3	11.9	12.5	7.6	3.8	3.3	6.8	7.9	20.3
1865..	3.4	15.4	23.4	25.1	20.0	18.6	26.8	25.9	17.1	13.5	13.5	10.3	26.8
1866..	15.7	13.4	20.4	26.8	24.5	20.5	17.7	14.7	21.1	19.9	13.4	11.5	26.8
1867..	8.8	24.5	21.2	28.0	28.2	26.7	26.8	19.9	12.4	8.1	6.1	5.5	28.2
1868..	6.6	6.7	16.9	20.4	24.2	18.2	16.1	10.8	9.3	8.4	13.5	9.4	24.2
1869..	14.4	15.7	12.9	20.8	20.0	23.0	29.3	25.3	20.3	17.7	14.0	14.4	29.3
1870..	9.8	9.5	17.9	26.2	22.9	17.0	13.8	10.2	11.8	12.5	17.8	8.4	26.2
1871..	10.7	19.1	21.8	17.2	18.1	16.2	14.0	8.8	6.7	3.9	6.6	8.0	21.8
1872..	7.1	11.3	10.9	17.6	21.8	23.0	21.6	18.0	9.5	6.8	7.2	7.1	23.0
1873..	10.8	15.5	16.9	25.4	24.4	25.2	25.0	17.2	8.5	7.4	6.5	16.3	25.4
1874..	15.2	11.2	16.4	17.8	16.2	18.4	15.0	11.3	10.6	8.8	7.5	7.7	18.4
1875..	7.1	9.6	12.3	21.2	24.6	24.0	28.9	29.9	19.5	14.0	8.4	7.3	29.9
1876..	17.5	13.1	22.9	29.2	32.5	27.2	30.1	16.9	22.2	14.8	13.2	14.2	32.5
1877..	11.5	15.0	13.8	23.5	25.5	26.6	26.5	15.8	11.1	12.8	13.8	16.8	26.6
1878..	17.3	19.2	22.8	22.0	23.2	25.8	22.3	20.2	12.3	11.1	10.2	9.7	25.8
1879..	10.2	10.2	12.2	18.0	12.9	20.9	21.2	16.0	9.6	8.5	13.9	13.5	21.2
1880..	15.4	11.6	12.1	17.4	18.2	22.2	25.4	16.5	15.1	12.5	8.8	6.6	25.4
1881..	8.9	18.6	23.0	31.1	33.7	24.7	24.8	15.8	13.5	25.2	29.5	20.6	33.7
1882..	16.8	28.2	20.1	24.8	27.4	28.9	32.4	18.0	10.7	10.8	11.2	10.7	32.4
1883..	8.8	26.2	25.8	20.6	26.5	34.8	32.1	21.2	11.0	11.6	14.5	10.4	34.8
1884..	12.3	15.8	25.6	28.2	25.2	21.7	20.8	17.2	20.5	22.2	16.9	16.5	28.2
1885..	17.5	15.0	24.2	25.9	26.1	27.0	22.5	19.6	22.2	12.5	12.6	9.2	27.0
1886..	17.3	23.1	23.2	23.7	27.0	20.6	16.7	9.3	7.4	7.6	7.6	7.9	27.0
1887..	11.0	17.8	20.0	20.5	18.4	18.0	16.9	9.8	11.6	8.5	5.6	7.5	20.5
1888..	15.3	15.4	25.6	23.3	28.9	29.3	27.1	19.5	12.7	6.0	9.0	8.7	29.3
1889..	11.8	6.7	16.5	16.3	24.1	24.4	15.5	13.0	8.2	5.1	10.6	6.2	24.4
1890..	16.2	11.4	15.0	18.7	18.3	20.7	20.5	10.7	8.3	9.4	8.9	6.8	20.7
1891..	5.3	11.5	19.3	23.4	20.6	23.0	23.5	19.8	10.1	6.4	5.7	5.6	23.5
1892..	10.0	17.2	18.5	26.8	36.0	34.7	31.1	18.8	9.6	6.8	6.1	5.6	36.0
1893..	7.5	11.2	22.1	29.0	31.5	28.0	21.5	11.3	5.2	4.2	3.4	2.5	31.5
1894..	4.0	6.4	20.1	18.7	23.3	18.3	17.0	8.8	6.1	4.0	3.4	3.7	23.3
1895..	3.0	4.9	8.1	9.6	9.9	12.9	17.1	13.3	10.9	3.9	2.8	23.3	23.3
1896..	15.4	10.6	9.2	13.2	27.7	25.0	21.8	15.8	10.5	7.6	9.3	7.8	27.7
1897..	24.8	15.4	23.2	29.9	31.0	21.8	22.7	13.8	6.8	3.9	4.1	3.5	31.0
1898..	7.7	12.3	25.2	22.8	27.2	25.4	23.2	12.3	11.0	10.1	9.0	9.8	27.2
1899..	6.7	13.6	19.8	25.6	25.1	24.8	23.9	16.2	7.5	4.8	6.6	5.4	25.6
1900..	7.7	9.6	23.4	18.6	16.5	14.7	13.1	11.4	10.4	13.4	13.9	10.1	23.4
1901..	5.7	5.2	18.8	22.4	15.2	15.3	14.1	8.4	5.2	4.4	4.1	7.5	22.4
1902..	9.5	5.1	13.4	12.4	18.2	21.2	26.9	22.7	20.2	20.8	14.8	14.7	26.9
1903..	10.4	16.0	25.8	24.6	25.6	38.0	21.1	18.1	21.8	22.5	15.4	6.1	38.0
1904..	15.4	10.5	25.2	33.65	33.2	29.0	28.4	13.0	11.6	11.7	9.9	5.0	33.65
1905..	9.6	18.0	19.5	18.9	20.7	22.2	25.8	21.5	30.2	19.0	14.3	10.8	30.2
1906..	16.2	22.3	25.7	26.2	22.4	22.0	20.4	13.6	12.2	13.0	9.6	10.9	26.2
1907..	26.3	16.5	18.7	20.4	21.3	24.5	28.1	25.8	14.0	13.1	7.2	5.9	28.1
1908..	5.0	17.4	21.0	20.1	27.5	34.95	31.5	19.3	10.8	11.0	10.8	11.5	34.95
1909..	8.0	16.7	22.6	25.2	25.1	26.2	35.35	16.2	10.9	7.4	20.5	22.6	35.35
1910..	31.9	14.2	22.5	18.9	24.9	23.8	16.2	8.1	14.1	8.2	2.6	1.8	31.9
1911..	5.8	19.8	15.3	15.3	15.6	10.6	10.9	10.3	13.1	19.1	13.4	13.4	19.8
1912..	13.3	15.2	29.8	30.8	30.2	23.1	15.5	13.6	12.0	10.6	10.9	6.0	30.8
1913..	9.4	7.6	25.8	27.2	18.2	17.8	16.0	9.5	5.1	5.9	8.1	10.0	27.2
1914..	2.8	9.4	10.6	19.0	13.8	20.5	17.8	9.6	19.3	17.2	6.8	4.8	20.5
1915..	7.3	23.5	22.9	20.9	29.5	31.6	31.3	30.6	24.3	22.2	15.5	14.9	31.6
1916..	31.5	31.2	26.2	26.3	30.0	29.9	21.9	17.1	5.7	4.7	5.0	4.3	31.5
1917..	1.7	4.0	17.0	23.9	25.8	32.9	22.3	12.1	5.4	8.6	3.0	2.4	32.9
1918..	5.3	9.3	16.4	18.8	17.9	20.7	17.5	8.5	14.2	3.1	8.2	6.0	20.7
1919..	6.5	9.6	23.2	23.1	26.9	24.5	17.4	7.7	7.7	20.7	20.5	11.7	26.9
1920..	3.6	5.5	27.8	28.0	28.0	22.3	21.9	12.9	14.2	8.4	4.5	5.3	28.0
1921..	5.0	8.1	14.6	21.4	23.0	21.1	21.1	11.0	18.9	14.7	8.0	8.8	23.0
1922..	8.9	9.8	25.2	34.0	28.7	18.5	19.8	11.2	4.8	2.8	8.6	4.2	34.0
1923..	1.4	2.8	17.7	16.4	14.0	20.7	18.4	11.7	6.8	11.9	7.1	11.3	20.7
1924..	6.8	11.2	15.4	17.6	18.0	25.5	26.3	18.4	17.6	9.8	6.0	11.0	26.3
1925..	12.6	16.4	17.2	17.5	13.0	19.9	18.2	8.8	8.4	12.4	13.8	9.0	19.9
1926..	8.6	14.1	13.8	20.9	13.7	18.7	12.4	10.0	24.5	29.5	17.9	16.7	29.5
1927..	9.4	17.1	27.3	36.1	30.3	33.0	23.5	18.6	9.1	23.4	10.7	15.5	36.1
1928..	21.8	19.3	14.7	24.4	15.0	27.75	20.9	17.8	18.8	12.2	28.5	17.5	28.5
1929..	10.2	11.3	28.5	34.6	33.3	30.8	21.7	10.2	3.1	6.6	10.3	2.9	34.6
Entr.	31.9	31.2	29.8	36.1	36.0	38.0	35.25	30.6	30.2	29.5	29.5	23.3	38.0

Gage elevations reduced from high water marks (data prior to 1844 considered questionable) are as follows:

1785, April, 42.0	1844, June, 41.39	1852, May, 28.0
1826, 33.8, month unknown	1845, June, 32.4	1853, May, 30.0
1828, 36.4, month unknown	1846, May, 25.0	1855, 37.1, month unknown
1838, May, 27.4	1849, Mar. 27.4	1856, May, 27.4
1843, May, 27.2	1851, June, 36.6	1858, June, 37.2

MONTHLY AND ANNUAL LOWEST RIVER STAGES

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	An'l.
1860..	....	....	....	....	....	....	....	....	....	....	....	0.6	....
1861..	1.3	1.9	14.5	16.5	17.6	16.5	12.4	7.7	6.9	7.6	6.4	4.1	1.8
1862..	3.5	6.4	6.6	17.9	21.0	18.5	16.5	11.4	9.8	10.7	7.6	4.6	3.5
1863..	9.5	7.5	11.8	12.0	10.1	8.8	6.6	6.6	4.3	3.6	4.0	0.0	0.0
1864..	1.2	5.1	6.3	8.2	9.6	8.7	8.0	3.8	3.0	2.4	2.4	2.8	1.2
1865..	1.5	1.2	10.3	16.7	12.2	11.3	16.1	15.2	11.1	9.2	8.2	5.1	1.2
1866..	9.4	6.7	13.2	12.5	15.7	15.3	14.8	11.4	11.0	7.7	7.1	5.8	5.8
1867..	2.9	5.3	12.8	14.6	19.7	22.3	20.2	12.5	7.7	6.1	5.3	1.3	1.3
1868..	0.8	8.4	4.3	13.6	14.5	13.4	11.0	6.9	6.8	5.5	5.1	4.4	0.8
1869..	5.6	8.6	8.2	13.1	16.1	18.6	24.7	15.1	17.4	14.5	10.0	8.4	5.6
1870..	7.5	7.4	7.7	20.2	15.2	11.4	9.1	6.3	6.2	9.2	8.3	5.3	5.3
1871..	8.4	7.0	15.7	11.5	13.8	12.4	8.3	6.5	4.0	3.3	8.8	2.8	2.8
1872..	8.4	7.1	6.4	12.8	13.0	18.0	15.5	9.5	6.8	4.8	3.9	2.5	2.5
1873..	6.8	6.0	7.6	12.8	18.2	22.1	18.2	8.6	6.6	6.2	4.7	4.7	4.7
1874..	4.2	7.4	9.6	12.2	12.5	10.9	11.6	6.6	6.4	7.0	6.2	3.3	3.3
1875..	2.3	4.3	5.1	13.2	16.3	16.3	20.2	11.0	11.0	8.2	5.2	3.9	2.3
1876..	7.1	5.0	9.2	22.5	19.4	19.6	17.5	12.2	13.0	9.5	9.8	6.8	5.0
1877..	9.1	9.6	7.8	14.0	19.8	20.2	16.1	9.7	7.1	6.8	9.8	9.4	6.8
1878..	8.3	10.8	14.0	13.8	18.0	21.8	17.7	12.7	9.0	9.2	9.2	5.6	5.6
1879..	7.0	6.8	6.8	10.9	11.3	13.2	16.2	9.7	8.0	7.6	8.1	3.5	3.5
1880..	6.8	8.3	8.8	13.2	15.0	17.1	16.8	10.4	10.0	8.4	2.8	3.4	2.8
1881..	7.8	7.6	14.6	24.2	21.6	20.7	16.2	8.9	8.6	14.5	21.1	16.0	7.6
1882..	9.5	9.8	16.5	17.3	21.7	24.2	17.7	10.6	7.6	7.1	9.8	2.8	2.8
1883..	4.4	5.3	17.0	15.2	18.6	22.7	18.0	11.3	7.0	7.1	10.1	4.5	4.4
1884..	3.2	8.9	9.4	20.8	17.3	16.8	14.9	9.5	9.2	17.4	10.7	3.8	3.2
1885..	8.8	7.6	7.6	16.7	17.6	18.8	16.0	12.9	13.0	8.8	9.3	2.1	2.1
1886..	8.4	13.9	14.9	20.8	18.0	15.0	8.3	6.3	5.9	6.3	4.1	0.0	0.0
1887..	6.8	5.0	13.0	12.9	14.6	11.7	10.1	7.1	6.7	5.7	4.4	0.8	0.8
1888..	3.5	6.9	12.4	18.9	21.6	23.2	16.4	12.9	6.2	5.0	5.1	3.7	3.5
1889..	3.9	2.5	5.3	9.3	7.8	13.7	10.8	6.4	5.2	3.2	3.7	3.8	2.5
1890..	5.0	8.3	4.7	12.0	12.0	11.6	11.1	7.8	7.0	6.7	6.3	2.8	2.8
1891..	2.9	3.5	6.8	18.1	13.1	14.1	14.0	10.5	4.6	4.0	4.1	2.5	2.5
1892..	3.1	6.7	12.0	17.4	20.2	26.2	19.2	9.5	7.0	5.0	4.4	0.3	0.3
1893..	2.8	4.9	12.0	15.9	22.4	17.6	9.8	5.7	3.4	3.3	2.5	0.0	0.0
1894..	0.6	0.2	5.3	9.8	12.4	16.7	8.8	3.6	3.4	2.4	2.5	1.0	0.2
1895..	-0.7	3.3	4.9	6.1	5.6	7.1	11.7	6.1	3.5	2.6	2.2	-0.1	-0.7
1896..	4.4	4.6	4.7	5.8	13.6	17.0	13.6	9.5	5.5	4.4	4.4	3.8	3.8
1897..	5.6	4.8	12.2	24.0	15.2	14.4	12.8	7.1	3.9	2.8	3.1	-0.4	-0.4
1898..	1.6	3.2	7.2	13.5	14.8	18.7	10.7	6.4	4.6	3.0	5.5	0.3	0.3
1899..	1.1	-0.7	10.7	12.0	17.9	19.8	14.1	7.3	5.0	2.9	3.9	-0.8	-0.8
1900..	-2.52	-0.1	5.5	13.5	12.8	10.5	9.1	5.1	6.0	10.1	10.9	3.1	-2.52
1901..	0.6	1.7	3.8	15.4	9.4	9.5	8.2	3.7	2.2	2.8	2.9	-1.94	-1.94
1902..	-1.2	-0.2	3.8	6.7	7.6	17.4	21.2	14.8	7.5	11.6	9.4	8.8	-1.2
1903..	4.5	7.6	15.0	19.0	15.8	21.0	15.8	14.5	16.7	15.5	6.2	0.5	0.5
1904..	3.8	6.2	7.2	21.2	18.5	21.5	13.3	8.0	6.2	6.6	5.0	0.0	0.0
1905..	-0.3	6.5	12.4	13.3	10.9	17.6	17.6	12.4	10.1	8.3	9.1	5.4	-0.3
1906..	6.8	7.9	11.4	21.1	13.4	14.8	11.2	10.1	8.6	5.7	6.1	3.0	3.0
1907..	5.1	7.6	12.7	16.5	14.0	14.7	19.9	14.1	7.9	7.1	5.7	4.3	4.3
1908..	3.3	1.7	14.8	14.5	15.2	27.6	19.7	10.3	4.4	3.2	4.6	3.0	1.7
1909..	-1.6	5.4	13.3	15.4	19.3	20.2	16.4	10.0	6.5	5.1	5.1	3.9	-1.6
1910..	13.8	7.4	10.5	10.4	10.1	9.6	6.6	8.6	3.6	2.6	1.7	-1.4	-1.4
1911..	-2.0	3.5	5.8	5.7	5.6	6.6	5.9	5.4	5.0	12.7	8.3	5.9	-2.0
1912..	1.6	6.1	7.6	23.9	17.6	15.0	9.9	8.3	8.0	6.1	6.1	1.9	1.6
1913..	-1.4	2.6	4.3	17.9	15.1	14.6	9.8	4.9	3.5	3.6	4.1	3.1	-1.4
1914..	0.0	-2.3	7.1	8.1	8.6	11.6	10.0	4.4	5.0	6.9	3.0	-1.8	-2.3
1915..	1.7	4.1	13.2	13.5	11.0	27.5	22.0	18.8	12.5	11.1	7.4	3.2	1.7
1916..	4.0	12.8	11.2	21.6	21.1	21.9	13.8	6.9	3.7	2.7	3.9	-2.5	-2.5
1917..	-0.8	-2.4	1.6	15.5	14.2	20.3	12.1	5.6	2.6	1.8	2.1	-8.11	-8.11
1918..	-2.7	2.8	7.6	8.8	8.3	13.9	7.2	5.0	2.0	1.0	2.5	3.3	-2.7
1919..	0.3	2.9	3.0	15.7	15.7	14.8	7.7	4.7	1.1	3.7	8.3	0.2	0.2
1920..	1.9	3.4	2.8	25.1	20.6	13.9	12.9	3.6	4.3	1.9	2.6	-2.4	-2.4
1921..	-1.8	2.9	4.1	9.1	10.3	11.7	6.4	5.5	3.8	3.7	3.7	4.1	-1.8
1922..	1.3	1.6	9.3	24.5	13.8	11.5	9.8	4.0	1.8	0.5	0.5	-2.9	-2.9
1923..	-0.1	-0.1	1.3	13.1	9.3	10.8	8.4	5.5	3.7	7.2	4.7	4.9	-0.1
1924..	0.6	4.9	6.4	13.6	11.1	13.9	15.2	10.8	7.3	5.0	4.0	3.0	0.6
1925..	6.3	5.3	8.1	10.1	5.6	6.0	8.3	4.3	2.1	5.2	4.6	0.4	0.4
1926..	2.6	4.6	8.6	11.9	9.2	8.2	5.8	5.7	8.8	14.9	11.5	6.7	2.5
1927..	3.9	10.8	11.0	23.1	23.7	24.0	11.5	9.4	5.6	7.8	6.5	5.5	3.9
1928..	6.6	6.0	8.5	14.3	10.7	11.3	14.3	5.7	8.7	6.8	10.6	7.6	6.0
1929..	6.8	5.2	12.9	25.7	18.0	17.5	9.6	8.2	2.4	1.9	3.0	-0.9	-0.9
Edr.	-2.7	-2.4	1.3	5.7	5.6	6.0	5.8	8.6	1.1	0.5	0.5	-3.11	-3.11

* Record incomplete.

* Approximate, gage covered with frozen mud.

DAILY RIVER STAGES, 1929

Observations made at 7 a. m.

Zero of the gage is 33.74 feet below St. Louis city directrix plane, and 379.796 feet above mean Gulf level.

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1	8.9	8.9	12.9	26.6	31.8	17.5	17.4	9.5	3.1	2.4	7.0	2.9
2	9.1	8.5	16.3	26.3	31.0	18.5	16.6	9.2	3.0	2.2	8.4	2.5
3	8.6	8.3	17.0	27.5	31.7	20.3	16.0	8.9	3.0	2.0	9.7	2.1
4	7.9	8.0	17.7	28.1	32.1	25.2	15.5	8.7	2.8	1.9	10.3	1.2
5	7.6	7.9	18.3	28.6	31.9	28.4	14.8	9.4	2.6	2.0	10.0	-0.3
6	7.8	7.8	18.3	29.1	31.2	29.6	14.1	9.8	2.6	2.0	9.4	-0.1
7	7.5	7.5	17.9	28.9	30.2	30.2	13.7	9.4	2.8	2.0	8.2	0.9
8	7.3	7.2	17.8	28.7	29.4	30.6	13.6	10.0	2.8	2.0	7.4	0.8
9	6.8	6.9	16.7	27.6	28.4	30.8	14.7	10.1	2.8	2.0	6.4	0.6
10	7.0	6.6	17.0	27.8	27.6	30.5	19.0	9.5	2.7	2.1	5.9	0.5
11	7.7	6.2	18.1	29.8	26.9	29.4	20.6	9.4	2.3	2.7	5.5	0.6
12	7.7	5.8	18.5	30.5	25.9	27.5	19.9	9.2	2.1	3.8	5.3	0.7
13	7.9	5.6	18.4	30.3	25.9	25.5	19.6	8.9	2.4	4.6	5.1	1.0
14	8.0	5.3	19.7	29.9	28.1	25.8	19.5	8.4	2.7	4.8	4.9	1.2
15	8.0	5.2	21.0	29.3	30.5	24.0	19.5	8.0	3.0	5.7	5.2	1.4
16	7.7	5.3	22.7	28.2	31.8	22.2	19.9	7.6	3.1	6.3	5.9	1.6
17	7.1	5.4	27.2	27.2	31.6	21.1	21.1	7.0	2.9	6.6	6.5	2.3
18	7.2	5.6	28.4	26.4	30.6	20.5	21.4	6.4	2.7	6.2	7.1	2.5
19	8.1	5.6	28.3	26.1	31.2	20.5	21.4	5.9	2.6	5.3	7.5	2.4
20	8.6	5.4	28.0	25.9	33.0	20.8	21.7	5.7	2.8	4.6	7.0	2.5
21	8.7	5.3	27.4	25.7	33.2	20.3	20.7	5.3	2.9	4.1	6.5	1.8
22	8.3	5.9	26.5	26.5	32.0	19.5	18.9	5.0	2.9	3.8	6.0	0.3
23	8.8	6.4	25.8	28.8	30.0	19.3	17.2	4.8	2.9	3.7	5.8	-0.5
24	9.1	6.7	25.7	30.8	27.7	20.0	15.7	4.5	2.8	3.6	5.4	-0.9
25	10.2	6.8	25.7	32.3	25.6	21.4	14.5	4.1	2.9	3.5	5.0	-0.8
26	9.9	7.1	26.0	33.6	24.0	23.2	18.5	3.9	2.9	4.2	4.6	-0.8
27	10.0	7.6	26.7	34.4	22.9	23.9	12.6	3.8	2.8	4.3	4.2	-0.5
28	10.0	10.3	26.5	34.6	22.1	23.1	11.8	3.7	2.7	4.0	3.7	0.0
29	9.8	.....	26.3	33.8	21.4	20.9	10.9	3.5	2.6	4.0	3.5	0.3
30	9.7	.....	26.6	32.8	20.3	19.0	10.3	3.4	2.5	4.1	3.1	0.7
31	9.5	.....	26.5	.....	18.6	.....	9.8	3.2	.....	5.0	.....	1.2
Mean	8.4	6.8	22.2	29.2	28.3	23.6	16.6	7.0	2.8	3.7	6.4	0.9

ELEVATIONS ABOVE MEAN GULF LEVEL

Olive Street Lobby, Railway Exchange Building.....	473.128 feet.
St. Louis City Directrix.....	413.536 feet.
Zero of river gage.....	379.796 feet.
Barometer cistern, zero point.....	716.807 feet.
Station elevation (elevation barometer Jan. 1, 1900)	568.236 feet.
Floor of thermometer shelter.....	737.528 feet.
Top of rain gage.....	730.788 feet.
Main roof, Railway Exchange Building.....	727.338 feet.
Anemometer cups.....	776.690 feet.
Wind vane.....	778.890 feet.
Upper pent-house roof, Railway Exchange Building.....	760.244 feet.

WBO, St. Louis, 1-20-30-500.